

Stephen John KENT  
 "Immunomodulating Compositions, Uses Therefor and Processes for Their  
 Production  
 Attorney Docket No. 21415-0021-01.US

PCT/AU2004/000775

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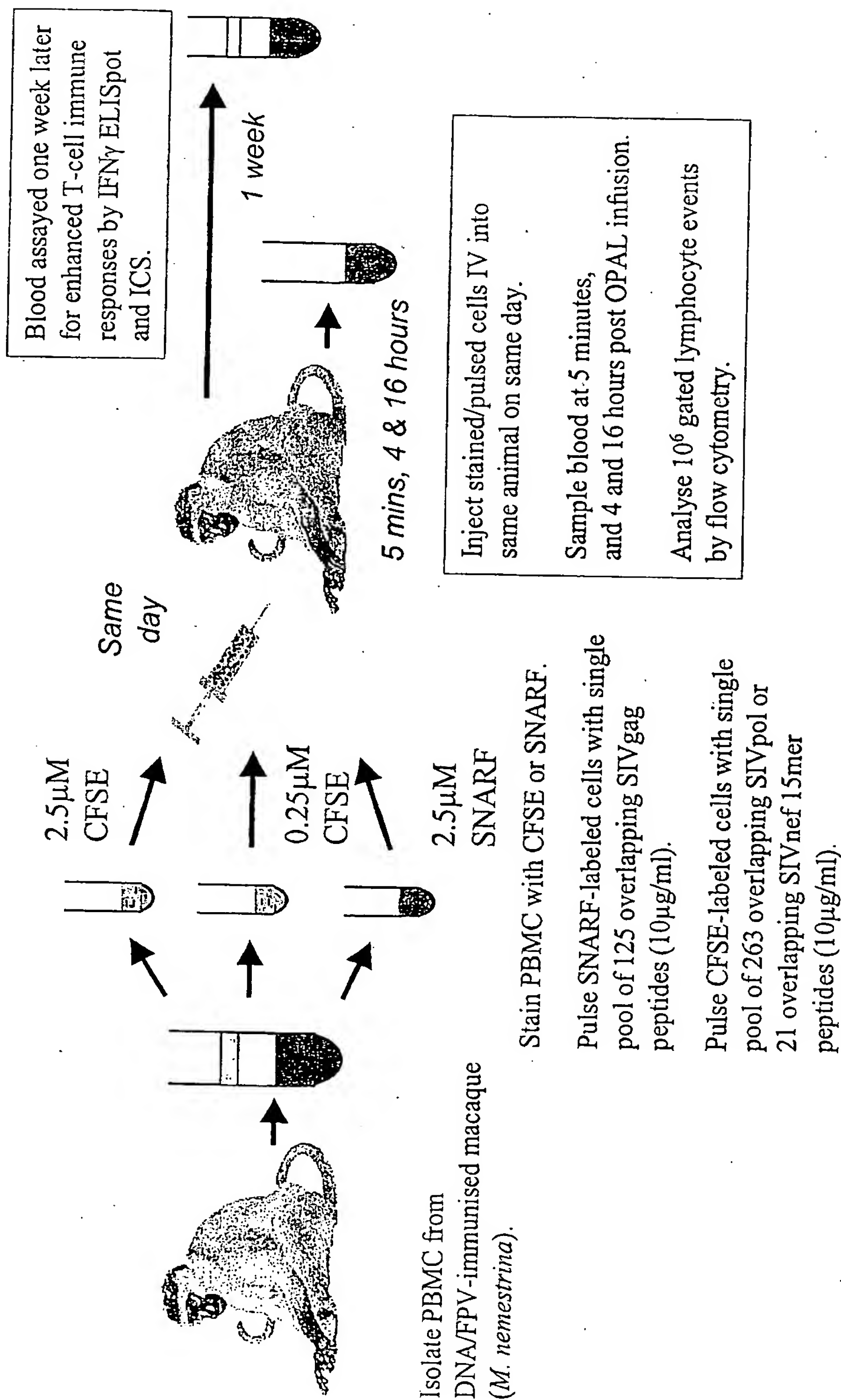


FIGURE 1

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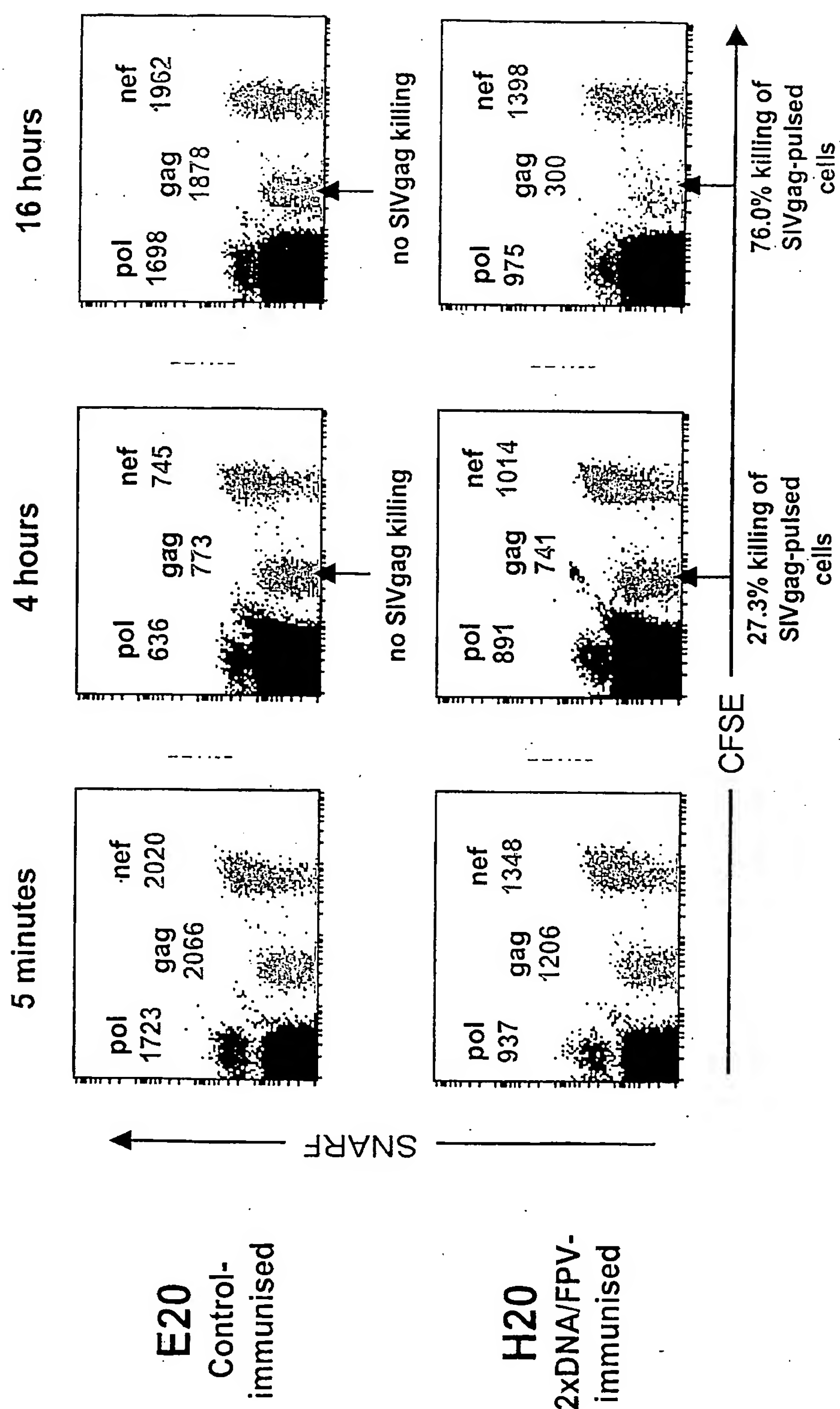


FIGURE 2

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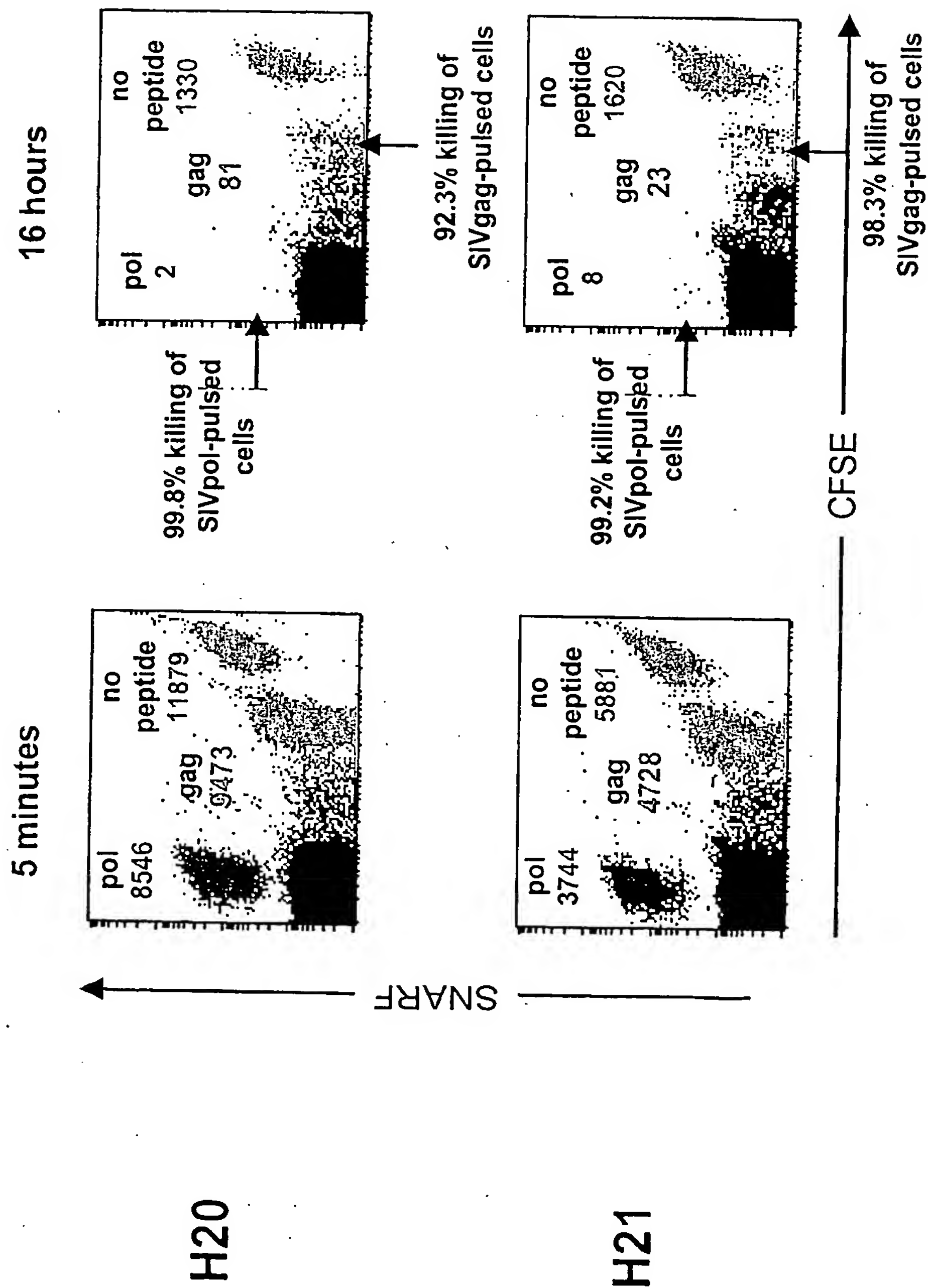
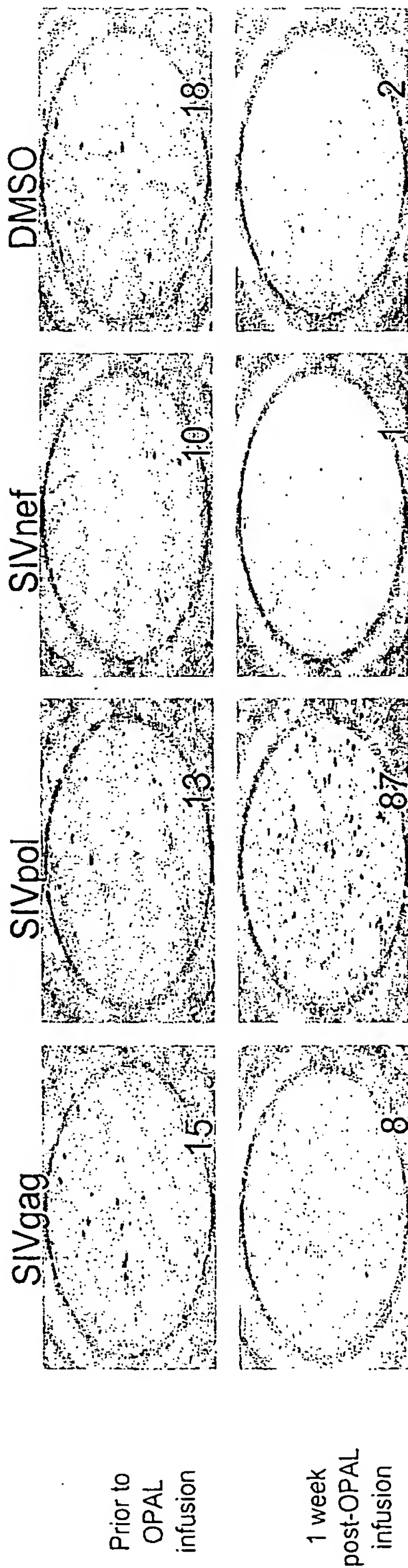


FIGURE 3

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### E22 - control-immunised animal



### H20 - 2xDNA/FPV-immunised animal

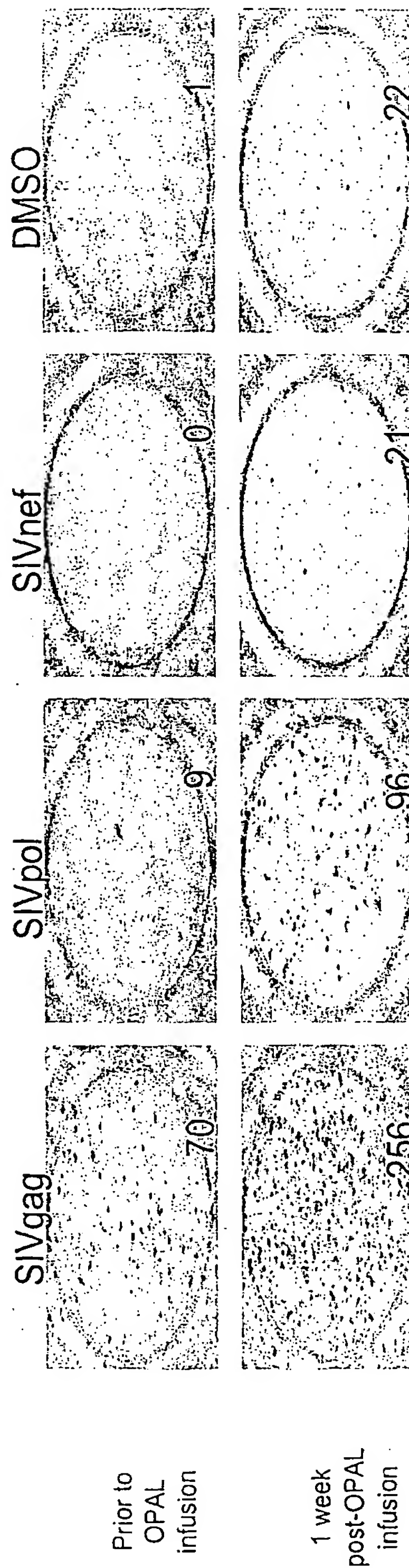


FIGURE 4

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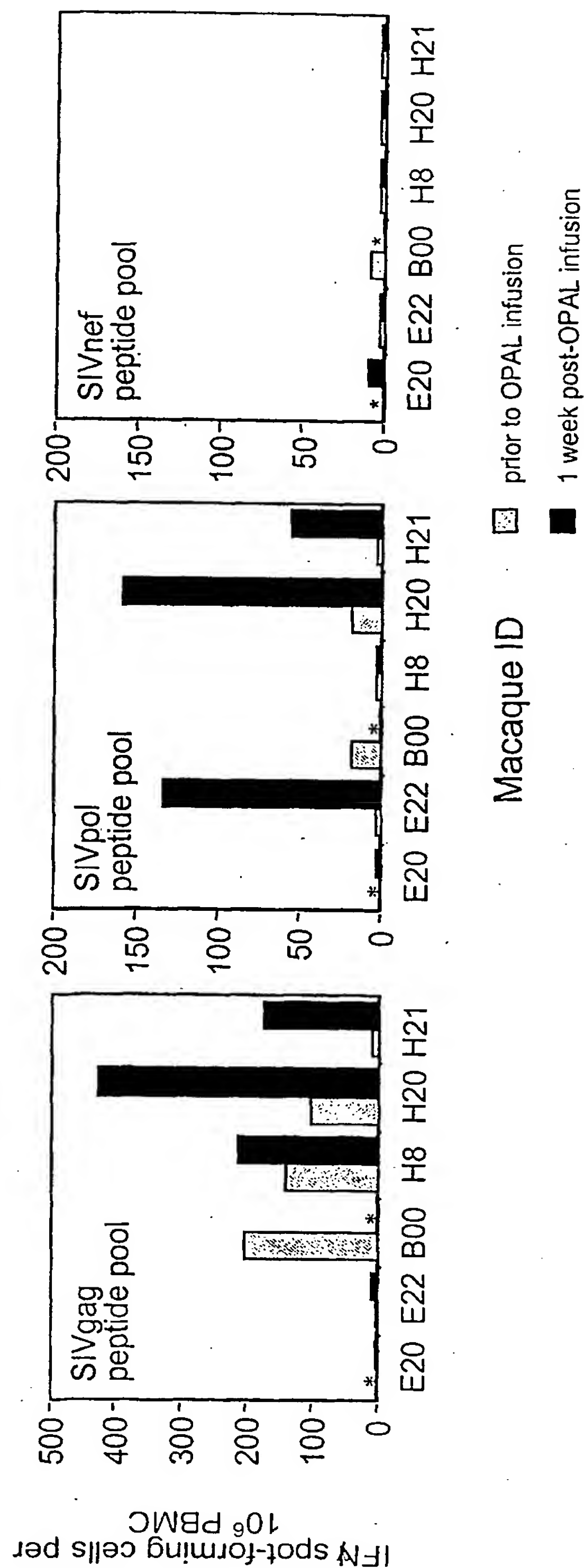


FIGURE 5

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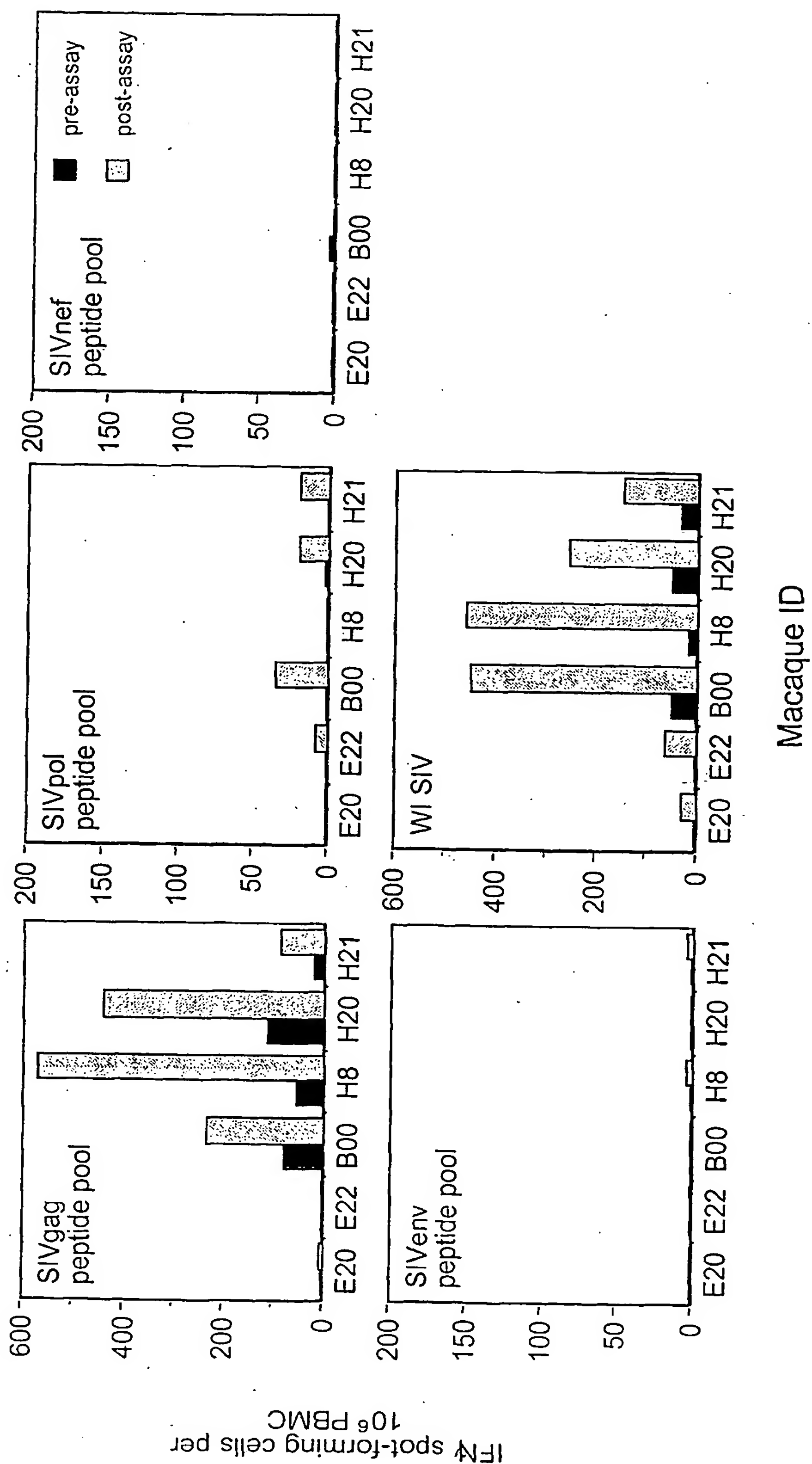


FIGURE 6

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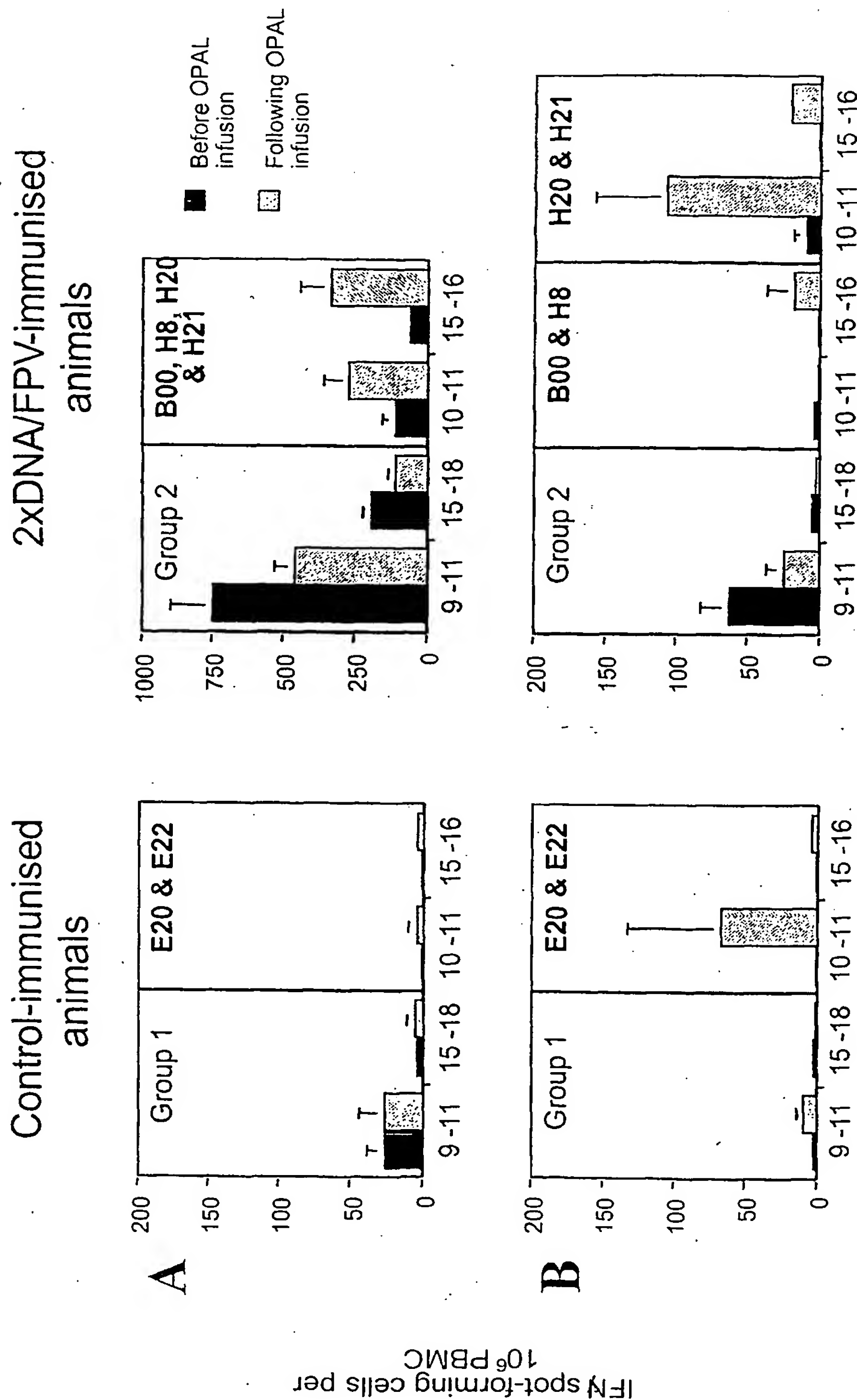


FIGURE 7



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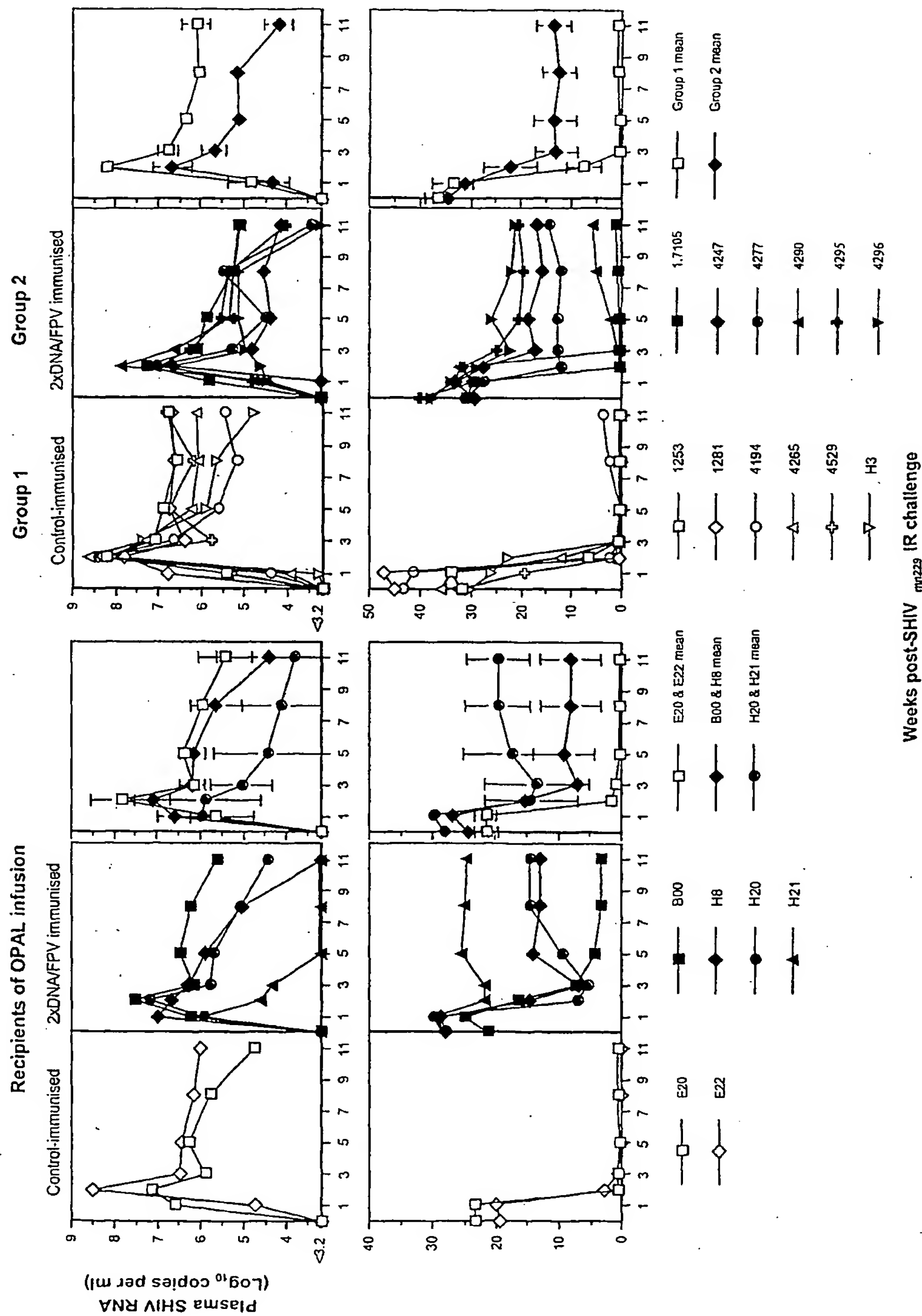


FIGURE 8



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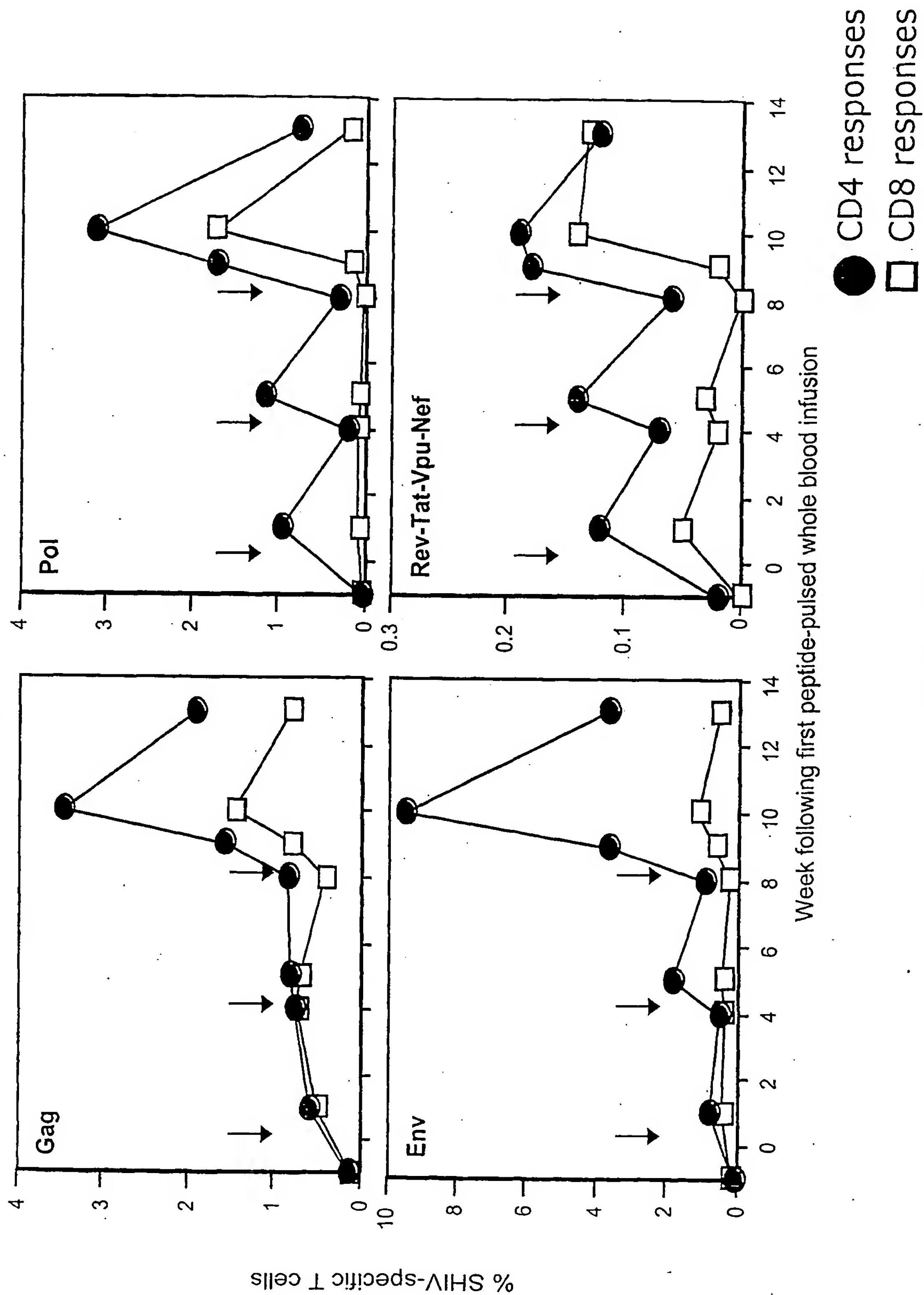


FIGURE 9

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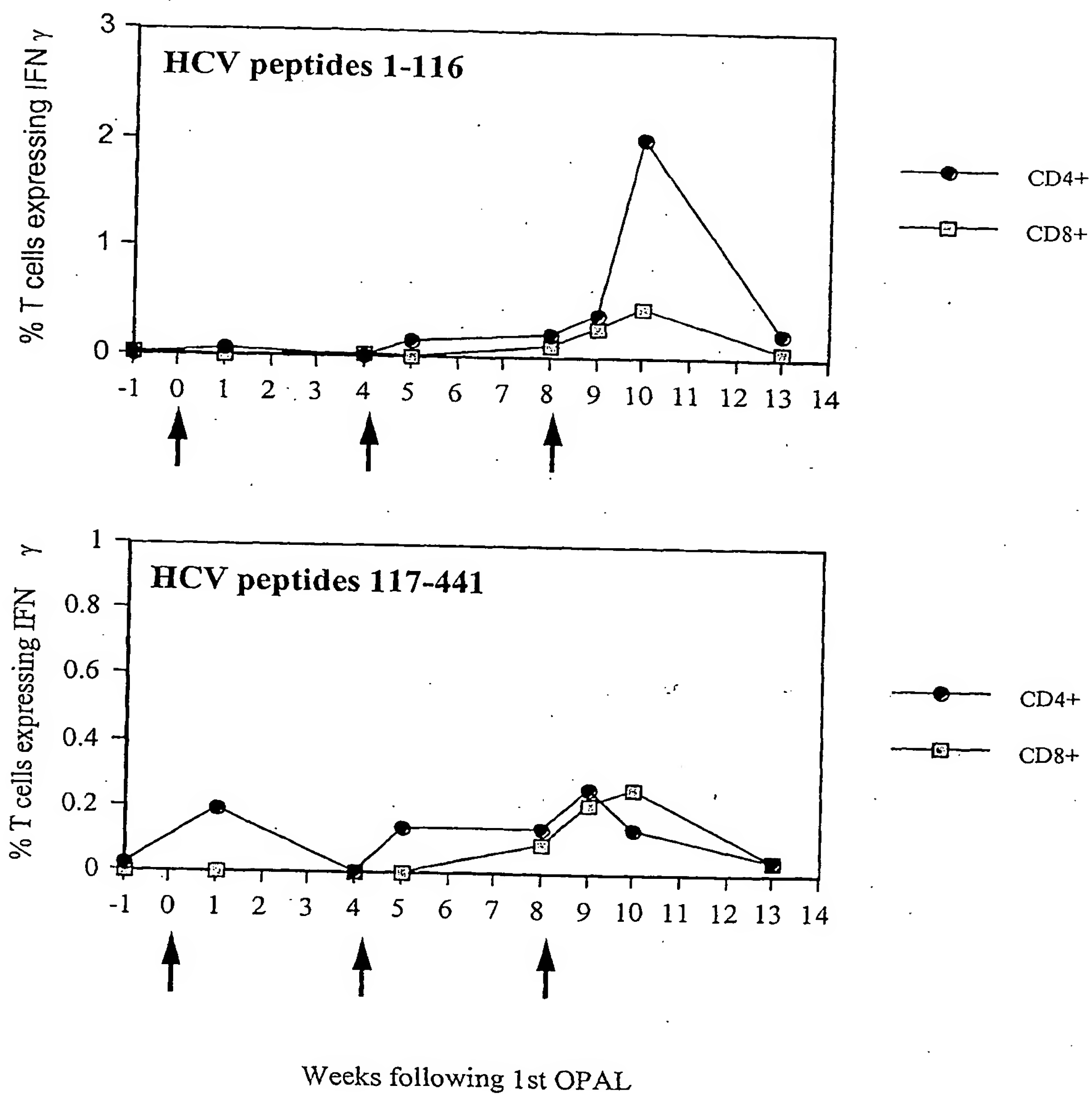


FIGURE 10

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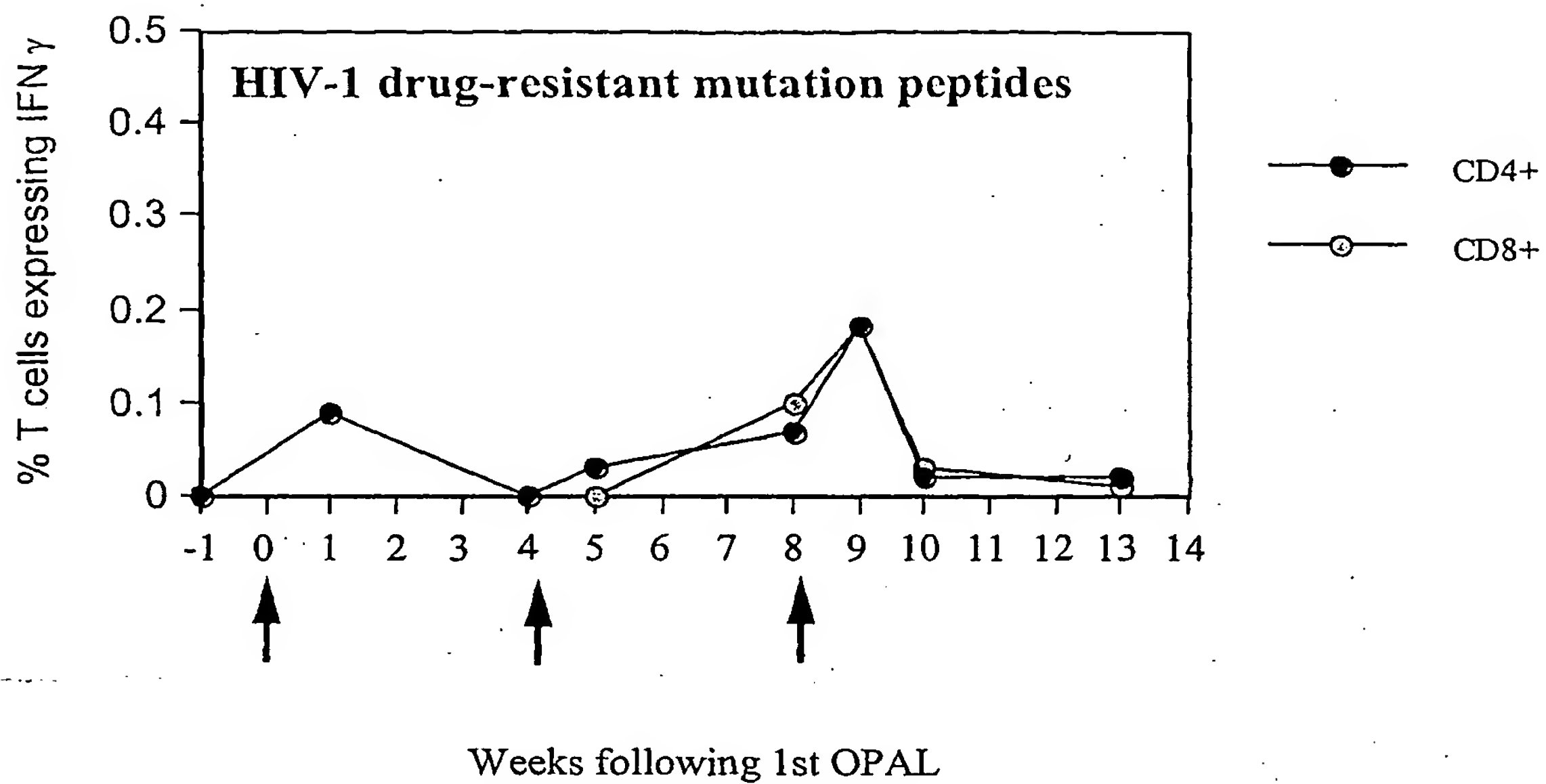


FIGURE 11

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RT (reverse transcriptase) enzyme of HIV-1

```
1 -----KVKQWPLTEEKIKALVEICTEMEKEGKISKI 50
51 GPENPYNTPVFAIKKKDSTKWRKLVDFRELNKRTQDFWEVQLGIPHPAGL 100
101 KKKKSVTVLDVGDAYFSVPLDKDFRKYTAFTIPSINNETPGIRYQYNVLP 150
151 QGWKGSPIAFQSSMTKILEPFRKQNPDIVIYQYMDDLIVGSDLEIGQHRT 200
201 KIEELRQHLLRWGFTTPDKKHQKEPPFLWMGYEL 234 [SEQ ID NO:2197]
```

17mer peptide Known HIV-1 drug resistance site

ALVEICTELEKEGKISK	M41L	[SEQ ID NO:2198]
EICTEMEKGKISKIGP	E44D	[SEQ ID NO:2199]
NTPVFAIKRKDSTKWRK	K65R	[SEQ ID NO:2200]
PVFAIKKKNSTKWRKLV	D67N	[SEQ ID NO:2201]
FAIKKKDSKWRKLVDF	T69D	[SEQ ID NO:2202]
AIKKKDSTRWRKLVDFR	K70R	[SEQ ID NO:2203]
KDSTKWRKVVDRELNK	L74V	[SEQ ID NO:2204]
DSTKWRKLTDFRELNR	V75T	[SEQ ID NO:2205]
VQLGIPHPGGLKKKKS	A98G	[SEQ ID NO:2206]
PHPAGLKKNKSVTVLDV	K103N	[SEQ ID NO:2207]
DVGDAYFSIPLDKDFRK	V118I	[SEQ ID NO:2208]
RYQYNVLPMPGWKGSPI	Q151M	[SEQ ID NO:2209]
KQNPDIVICQYMDDLIV	Y181C	[SEQ ID NO:2210]
PDIVIYQYVDDLIVGSD	M184V	[SEQ ID NO:2211]
PDIVIYQYIDDLIVGSD	M184I	[SEQ ID NO:2212]
IYQYMDDLIVGSDLEIG	Y188L	[SEQ ID NO:2213]
QYMDDLIVASDLEIGH	G190A	[SEQ ID NO:2214]
IEELRQHLLRWGFTTPD	L210W	[SEQ ID NO:2215] (also contains T215F as L210W follows 215 mutation)
QHLLRWGFTTPDKKHQK	T215F	[SEQ ID NO:2216]
QHLLRWGFYTPDKKHQK	T215Y	[SEQ ID NO:2217]
RWGFTTPDQKHQKEPPF	K219Q	[SEQ ID NO:2218]

Protease enzyme of HIV-1

```
1 PQITLWQRPLVTIKIGGQLKEALLDTGADDTVLEEMNLPGRWKPKMIGGI 50
51 GGFIKVRQYDQILIEICGHKAIGTVLVGPTPVNIIGRNLLTQIGCTLNF 99 [SEQ ID NO:2219]
```

17mer peptide Known HIV-1 drug resistance site

QITLWQRPIVTIKIGGQ	L10I	[SEQ ID NO:2220]
TIKIGGQLREALLDTGA	K20R	[SEQ ID NO:2221]
ALLDTGADNTVLEEMNL	D30N	[SEQ ID NO:2222]
LPGRWKPKIIGGIGGFI	M46I	[SEQ ID NO:2223]
GRWKPKMIVGIGGFIKV	G48V	[SEQ ID NO:2224]
WKPKMIGGVGGFIKVRQ	I50V	[SEQ ID NO:2225]
KMIGGIGGLIKVRQYDQ	F53L	[SEQ ID NO:2226]
MIGGIGGFVKVRQYDQI	I54V	[SEQ ID NO:2227]
KVRQYDQIPIEICGHKA	L63P	[SEQ ID NO:2228]
TVLVGPTPANIIGRNLL	V82A	[SEQ ID NO:2229]
TVLVGPTPTNIIGRNLL	V82T	[SEQ ID NO:2230]
LVGPTPVNVIIGRNLLTQ	I84V	[SEQ ID NO:2231]
VNIIGRNLLMTQIGCTLN	L90M	[SEQ ID NO:2232]

FIGURE 12